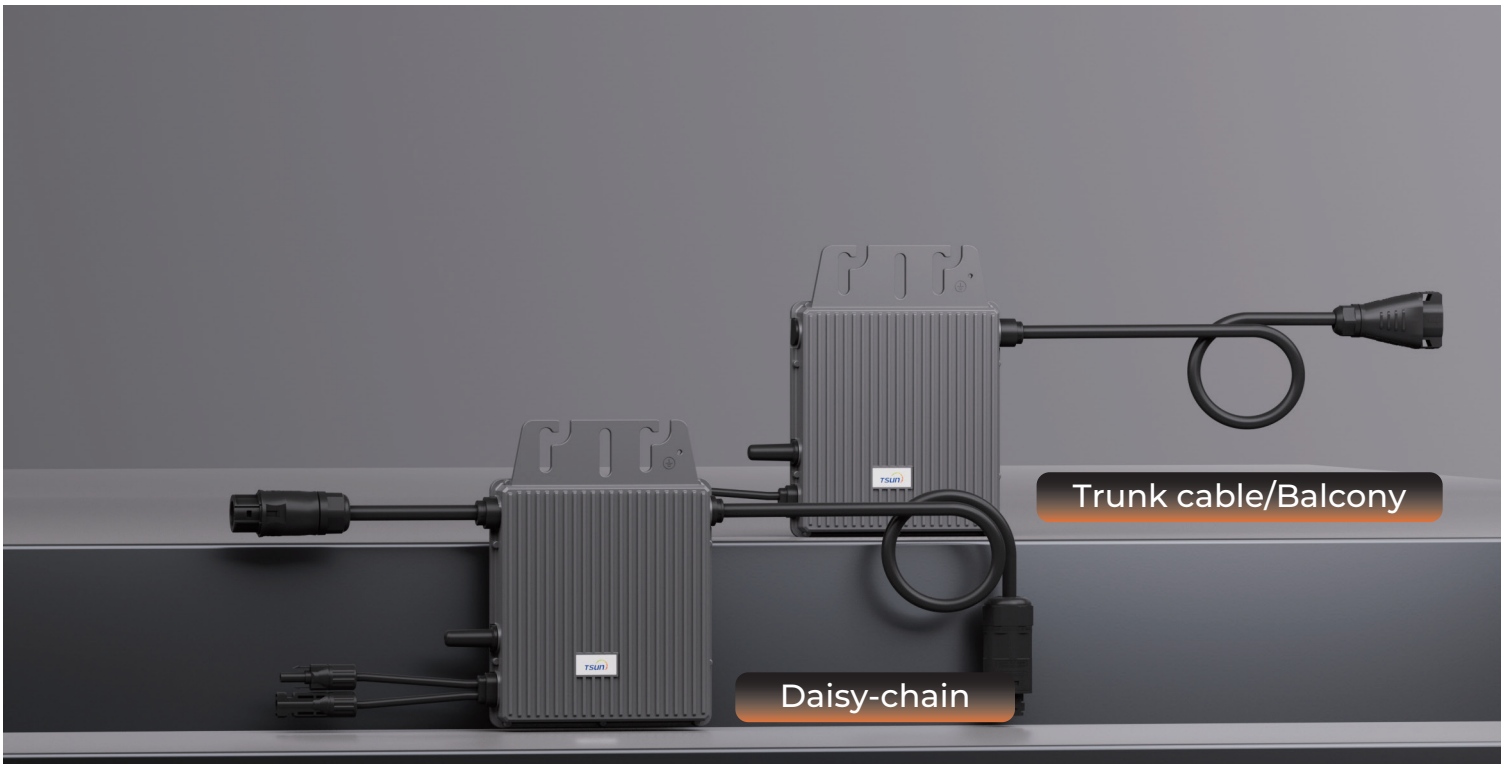
GEN3 Microinverter 1-in-1 (300W-500W)

Daisy-chain/Trunk Cable/Balcony

MORE SAFETY MORE POWER



Built-in WiFi, Bluetooth
APP Remote
Monitoring & Control

96.7%

Peak Efficiency
up to 96.7%

Plug & Play
Installation

Maximized Efficiency

Individual optimization, se-parate dedicated MPPT for each panel.
New topology design, max. efficiency up to 96.7%.

Flexibility

Suitable for TSOL-ESK series AC module solution.
Plug & play installation, Easy to install.

Safety

Max. DC voltage 60V. No threat for high DC voltage.

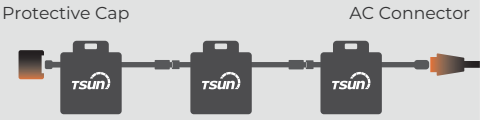
Integrated LoM protection function. Ensure the safety of power grid.

Reliability

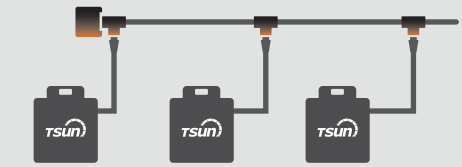
Die casting design and glue filling technology. Better thermal dissipation.

Standard 12 years warranty, quality guaranteed.

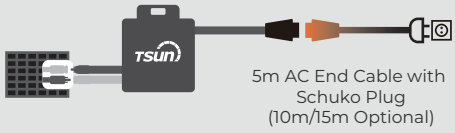
Daisy-chain



Trunk cable



Balcony



TSUNESS Co., Ltd

sales@tsun-ess.com www.tsun-ess.com +86-512-66186028

Model	TSOL-MS300	TSOL-MS350	TSOL-MS400	TSOL-MX400	TSOL-MX450	TSOL-MX500
Input (DC)						
Recommended Module Power (Wp)	300 ~ 550+			300 ~ 600+		
Quantity of PV Module	1			1		
Start up Voltage per Input@Rated Condition (V)	22			22		
MPPT Voltage Range per Input (V)	16 ~ 60			16 ~ 60		
Max. Input Voltage per Input (V)	60			60		
Short-current (A)	20			20		
Max. Input Current per Input (A)	14			14		
Quantity of MPPT	1			1		
Quantity of DC Inputs	1			1		
Output (AC)						
Nominal Continous Output Power (W)	300	350	400	400	450	500
Max Output Current (A)	1.45	1.59	2	2	2.25	2.5
Nominal Output Voltage (V)	220/230/240, L/N/PE					
Nominal Frequency (Hz)	50/60					
Power Factor	>0.99 Default, 0.8 Leading ... 0.8 Lagging					
Output Current Harmonic Distortion	<3%					
Maximum Units per 12AWG Branch*	23	20	17	17	15	14
Maximum Units per 10AWG Branch*	31	26	23	23	20	18
Efficiency						
Peak Inverter Efficiency	96.7%					
EU Efficiency	96.5%					
Nominal MPPT Efficiency	99.9%					
Night Time Power Consumption	<50 mW					
Mechanical Data						
Dimensions (WxHxD mm)	164 x 225 x 30					
Weight (kg)(Daisy-chain)	2.1					
Weight (kg)(Trunk cable/Balcony)	1.75					
General Data						
Communication	Wi-Fi (Bluetooth), 2 x RS485(Optional)					
Cable/Assembling	AC Cable up to 1.45m (Daisy-chain) AC Cable up to 0.5m with T Connector (Trunk cable) AC Cable up to 0.5m (Balcony)					
Type of Isolation	HF Isolation					
Ingress Protection	IP67					
Cooling	Natural Convection					
Operating Ambient Temperature Range	-40 ~ +65°C (Derating of over 40°C ambient temperature @Rated condition)					
Relative Humidity	100%					
Max. Operating Altitude Without Derating (m)	2000					

*For Daisy-chain & Trunk Cable